


AMENDMENTS TO THE SPECIFICATION


Please replace the paragraph on page 65, beginning at line 9 and ending at line 24, with the following paragraph:

(Currently Amended) The following composition is useful for the same purpose as the composition of Example 8 but is intended for use without adding ~~micro-organisms~~ microorganisms. It relies upon natural flora in the soil:



CSE Component	5.0-75.0%
Nitrogen	2.0-15.0%
Phosphorus	1.0-15.0%
Potassium	2.0-6.0%
Calcium	0.1-15.0%
Zinc	0.1-3.0%
Manganese	0.1-3.0%
Iron	0.1-3.0%
Vitamins	0.0-0.5%
Complexing Agent(s)	
Citric Acid	0.01-1.0%
Calcium lignosulfonate	5.0-75.0%

Please replace the paragraph on page 75, beginning at line 6, with the following paragraph:



(Currently Amended) Commenting further on this example, the bentonate clay and the algae function to adhere the composition to the seeds and to the roots. The added Katy-J assists in germination of the coated seeds and is helpful in promoting proliferation of desired micro-organisms in both seed and root treatment. In application of the composition to roots of seedlings to be planted, it is preferred to prepare a dry mixture of the spray dried mixture described above and of the freeze dried micro-organisms in the proportions described above. This dry mixture may be shipped to and stored by the farmer who may then mix it with water and dip the roots of seedlings in the resulting aqueous product just before

22
Contd. planting. The ~~micro-organisms~~ microorganisms are beneficial in seed germination and plant growth.

Please replace the paragraph on page 75, beginning at line 22, with the following paragraph:

23 (Currently Amended) Alternatively, the spray dried mix may be used without the addition of the freeze dried ~~micro-organisms~~ microorganisms, in which case the spray dried product will stimulate the growth of beneficial ~~micro-organisms~~ microorganisms naturally present in the soil.

Please replace the second paragraph of the Abstract of Disclosure on page 105, beginning on line 20, with the following paragraph:

24 (Currently Amended) The method is useful in treating vegetation to ~~promotes~~ promote plant growth and/or crop production, also for treating pollen, seeds, roots and soil and inhibiting growth of insects and ~~micro-organisms~~ microorganisms. A formulation including an energy/carbon skeleton component, a macro nutrient component and a micro nutrient component is applied, e.g. in aqueous solution by foliar spraying. This is done in a manner to make optimum use of the inherent ability of vegetation to harvest solar energy and to utilize other sources of energy and carbon skeleton, such that the energy and nutrients applied by the method of the invention is a fraction of the energy and carbon skeleton requiremenets of the vegetation.

Please replace the paragraph beginning on page 17, line 13, and bridging pages 17 and 18, with the following paragraph:

(Cuurently Amended) CSE Components

25
Contd. sugar-mannose, lactose, dextrose, ~~arythrose~~ erythrose,

fructose, fucose, galactose, glucose, gulose, maltose, polysaccharide, raffinose, ribose, ribulose, rutinose, saccharose, stachyose, trehalose, xylose, xylulose, adonose, amylose, arabinose, fructose phosphate, fucose-p, galactose-p, glucose-p, lactose-p, maltose-p, mannose-p, ribose-p, ribulose-p, xylose-p, xylulose-p, deoxyribose, corn steep liquor, whey, corn sugar, corn syrup, maple syrup, grape sugar, grape syrup, beet sugar, sorghum molasses, cane molasses, calcium

lignosulfonate

sugar alcohol-adonitol, galactitol, glucitol, maltitol, mannitol, mannitol-p, ribitol, sorbitol, sorbitol-p, xylitol

organic acids-glucuronic acid, a-ketoglutaric acid, galactonic acid, glucaric acid, gluconic acid, pyruvic acid, polygalacturonic acid, saccharic acid, citric acid, succinic acid, malic acid, oxaloacetic acid, aspartic acid, phosphoglyceric acid, fulvic acid, ulmic acid, humic acid

nucleotides and bases-adenosine, adenosine-p,

adenosine-p-glucose, uridine, uridine-p, uridine-p-glucose, thymine, thymine-p, cytosine, cytosine-p, guanosine, guanosine-p, guanosine-p-glucose, quanine, guanine-p, NADPH, NADH, FMN, FADH
